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ABSTRACT

The Information and Documentation Centre of the Royal Institute of Technology Library performs research and development in information science. The two main areas of this continuing research and development programme are (1) development of a comprehensive SDI service and (2) investigations in interactive retrieval services. This annual report gives an account of the activities performed and the results achieved, during the fiscal year 1974-75. Included within the report are descriptions of: (1) system development and implementation; (2) information services; (3) marketing and user education; (4) user contract and profiling; (5) information processing; (6) back up services; and (7) clerical and administrative activities. Tables illustrate the new profiles per month and database; the distribution of queries on user categories and the number of searches per month. Diagrams and appendices are included. (Author/AP)

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COMPUTERIZED INFORMATION SERVICE - SDI
ANNUAL REPORT 1974--75

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TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC) AND USERS OF THE ERIC SYSTEM."

IR005 262

Preamble

The Information and Documentation Centre of the Royal Institute of Technology Library, IDC - KTHB, performs research and development in information science. The two main areas of this continuing research and development programme are 1) Development of a comprehensive SDI-service 2) Investigations in interactive retrieval services.

This annual report gives an account of the activities performed and the results achieved, during the fiscal year 1974 - 75, in conjunction with the research projects 74-2038S, 74-2190S- 75-2045S entitled "Datamaskinell dokumentationstjänst - SDI" (Computerbased Information Service - SDI) sponsored by the Swedish Council for Scientific Information and Documentation - SINFDOK.

The SDI-project has been described in many other papers and reports. Each annual report includes a list of papers and reports published. The preceding annual report is "Computerized Documentation Service - SDI Selective Dissemination of Information" by Z Gluchowicz, TRITA-LIB-4040, January 1975.

The Information and Documentation Centre

The staff of the IDC on the SDI-project was as follows in July 1974:

Zofia Gluchowicz	Head of IDC
Roland Hjerppe Malin Edström Tore Hedman Kerstin Wessgren	Senior Information Officers

Luise Kaiserfeld Åke Nord Lilianna Kanafarski Peter von Sabsay	Information Officers
Lars-Börje Pettersson	Systems programmer
Lena Siwertz Elisabet Hedin Anja Nyman Kirsti Pettersson Ann-Mari Holmgren	Clerical staff

During f.y. 74-75 the following have been added to the staff.

Gunnar Carlsson	Information officer	since Dec. -74
Eva Agerberg	Programmer	since Dec. -74

The total range of research and development at the IDC includes other activities that are not reported here since they are performed under separate projects and thus accounted for in other reports. This does not imply that the different projects are selfcontained and delimited from each other. In reality all of the staff of the IDC participate in the execution of all projects althought their financing might be through different projects. Consequently there is no fixed distribution of duties and functions for the personnel who each can undertake or be directed to varying assignments. The whole staff is thus used as a task force within the IDC.

A brief characterization of visits, events and activities related to the SDI-project is given on a montly basis in App. 1 as an indication of the work situtation at the IDC.

The activities within the SDI-project described in this report encompass systems development and implementation, cooperation endeavours, database production, and information services, SDI.

System development and implementation

The SDI-system underwent deep and radical changes during fy 1974--1975. Table 1 gives an outline of the major phases of system development, or rather implementation since the dates indicated are the dates of implementation of new modules or routines. The SDI-system can be subdivided into 5 software modules, reformatting, profile handling, search, listing and statistics. In table 1 is only indicated the development after September 1971. Before that date the searches were made on the computer of AB Atomenergi, an IBM 360/30F,DOS with 64K, with the ABACUS software. After September 1971 the computer of QZ, Stockholms datamaskincentral för högre utbildning och forskning, an IBM 360/75 OS/MVT HASP with 1+1M, has been utilized except for the printout which was made at AB Atomenergi until March 1973 when listing was initiated at QZ. The development of the profile handling module EPOS I, the search modules VIRA I and VIRA III and the new format KOMPOST have been made in special projects while all other development work and an implementation work has been performed within the SDI-project.

The two major changes of the year reported were the introduction of a new search module VIRA III (described in TRITA-LIB-4036) and the implementation of the new compact format KOMPOST (described in TRITA-LIB-4039, see App. 2). VIRA III is in many respects a completely new search programme which is more economical and has a greater operational reliability.

All the bibliographic files processed for the SDI-service were prior to KOMPOST reformatted to the ABACUS-format. This format was for economical reasons not complete in the sense that all the information available on the various files was not transferred to the ABACUS-format. The retrospective files were for this reason saved in their original format. Since the reformatting programs for ABACUS had been made at different times and by different people there was only the most essential uniformity in the application of the ABACUS-format. Since the retrospective files were retained in their original format it was not possible

to do retrospective searches without another reformatting. All magnetic tapes will deteriorate as time passes and need to be rewritten regularly. The original tapes were not full and the format was usually greatly redundant. Because of this the new format KOMPOST was developed and implemented. The total number of tapes for the retrospective files was reduced from approx. 1 000 to 100, partly because of compactness of KOMPOST and partly because of packing the tapes full.

The whole profile file had to be recreated, partly by programs and partly by manual work, since the implementation of KOMPOST also resulted in major changes in the profile handling module EPOS. In order to render possible a gradual transition of databases to KOMPOST and at the same time continue the SDI-services a number of temporary modules had to be designed, phase 6 in table 1, so that the files not transformed could be searched as if they were, which somewhat eased the load on the information officers

The implementation was further complicated by a permanent reading error in conjunction with unforseen backup needs which necessitated a tedious recreation of the whole profile file. The final and definite conversion to KOMPOST was made during the last two weeks of December.

The production of the databases MechEn and Wood, that are produced by the IDC, was also deeply influenced by KOMPOST so that new input programs and routines had to be devised.

The strain on the whole IDC during the implementation of KOMPOST, and VIRA III (almost equally demanding) was considerable, especially since they had to be carried out while continuing the normal services to the user and the implementation of cooperation with the BioMedical Documentation Center, BMDC.

PHASE	FORMAT	PROFILE-HANDLING	SEARCHMODULE: PROFILE-SELECTION	SEARCHMODULE: SEARCH	LISTING	STATISTICS
1 sep -71	ABACUS	PROSA	PREVIRA-I	VIRA-I	TAVLA	TERM STAR 5 SEARCH
2 nov -72	- " -	EPOS-I no calls	PREVIRA-II modified for EPOS-I	- " -	- " -	- " -
3 mar -73	- " -	- " -	- " -	- " -	GETREF REFOUT	STAR 5 SEARCH
4 fall -73	- " -	EPOS-II calls	PREVIRA-III modified for EPOS-II	VIRA-II	- " -	- " - + HIT PROF DATA BASE
5 jul -74	- " -	- " -	JOCKE-I	VIRA-III	SOLO-I	- " - - " -
			new input routine and new search logic in VIRA entail total reprogramming of routines for profile selection, JOCKE-I, and listing, SOLO-I.			
6 Interim-phase from sep -74	- " -	EPOS-III modified for KOMPOST	JOCKE-II modified for KOMPOST	- " -	SOLO-II general data base controlled listing	- " - - " -
7 feb -75	KOMPOST	- " -	- " -	VIRA-IV modified for KOMPOST	- " -	- " - - " -
8	- " -	EPOS-IV modified for PROTECT	- " -	- " -	- " -	- " - - " -

TABLE 1 THE MAJOR PHASES OF SYSTEM DEVELOPMENT

Cooperation endeavours

The efforts towards coordination and cooperation between IDC and BMDC have continued during the year reported. The goals of these efforts were the following:

A common and coordinated utilization of the bibliographic files available at IDC and BMDC for SDI-services. The individual ultimate user shall when the cooperation is completely accomplished be able to utilize all the pertinent bibliographic files available at IDC and BMDC irrespective of whom he contacts.

The long range goal is that the cooperation shall facilitate a decentralization of user contact and profiling activity.

The prerequisites of this are the following:

- One and the same system is used by IDC and BMDC for the processing of the bibliographic files

- The same pricing is applied

- An agreement on the division of costs and income is drawn up

- The contracts with the database producers allow this kind of cooperation

- Education of information officers

- Planned and regular exchange of experiences and information on files

- Establishment of responsibility for processing and system maintenance

Three provisional cooperation groups ,coordination, processing and education were set up in August 1974 since the major obstacles were of three kinds, administrative, technical and educational. Among the administrative problems the question of pricing was the most difficult to resolve. The pricing policy had been a topic in the discussion since the first coordinating committee was set up in the end of 1973. The pricing of the IDC had been based on a fixed annual subscription fee disregarding member of databases searched and references printed but with a limit on the number of terms allowed in the profile.

The pricing of BMDC was based on a basic fee for each database allowing a number of printed references. Every reference printed after that,overhit,was charged for.

In april 1974 the SINFDOK council stated that the price should in some sense reflect the resource utilization of the user. After long and detailed discussions the coordination group submitted to the SINFDOK council that a change in policy be made and subsequently a pricing based on the philosophy of IDC was established.

The technical problems encountered concerned the transfer of the old profile files as well as the bibliographic files of BMDC to the EPOS/VIRA system. Since IDC was in the midst of major system changes both the system changes and the transfers interfered with and delayed each other. By the end of the fy 1974 - 75 all technical problems had been solved.

The educational problems were mainly the education of the information officers of BMDC in the EPOS/VIRA system and in the utilization of the data bases of IDC. The lack of proper documentation was in both cases acute. The information officers of IDC were also educated in the utilization of the databases

of BMDC, which however were much smaller in number.

Due to lack in resources, both personnel and time and contractual ambiguities there has been only limited common utilization even after all technical and educational problems had been solved, during fy 1974 - 75.

Information services

The dominant part of the work within the SDI-project is concerned with the actual provision of SDI-services, i.e. operating an information service at a scale that is big enough for the experiences and the results achieved to give a picture of conditions in a real situation. The activities within information services can be described under the five main headings

- Marketing and user education

- User contact and profiling

- Information processing

- Back-up services

- Clerical and administrative activities

Marketing and user education.

To the traditional forms of marketing, seminars and conferences, distribution of informative material etc. was added as an experiment during the fall of 1974 participation in two major exhibitions or fairs. The first was an exhibition organized in connection with the IFIP-Congress in August and the second in October was the annual Technical Fair of Stockholm. All in all the exhibitions were well visited and the immediate effects in terms of new subscriptions e.g. the Technical Fair 40, not important but the cost seems to be too high for general future use. The fairs were however occasions which necessitated a revision of existing information material, leaflets and service descriptions.

The ordinary marketing efforts were not neglected. During fy 1974 - 75 approximately 25 marketing events in the form of meetings, seminars and courses were held, which were attended by 750 persons. A detailed listing of events can be found in App. 1. Only the most notable will be briefly mentioned below.

A special seminar for users, attended by 50 users, the first of its kind for the IDC was held in March 1975. The program of the seminar is included in App. 3.

A conference on computerbased information retrieval was held on February 24 and March 10, 1975. The program for the conferences, which were attended by 240 persons is included in App. 4.

In November, 25 - 28, 1974 a seminar on "The Interactive Library. Computerized Processes in Library and Information Networks" sponsored i.g. by UNESCO was held in Stockholm with participation and demonstrations by the IDC. The program is included in App. 5.

User contact and profiling.

A query is defined as the information request of a user of the SDI-service. One user might have several queries running or several users in a team might have one common query. Each query will generate a number of profiles, one for each bibliographic file searched for the query. The number of queries can thus be used as a very rough indication of the use of the SDI-service while the number of profiles indicates the work generated for and by the information officers.

The ultimate users can also utilize the information services of the IDC by contacting other information units with whom IDC has a cooperation agreement. These units are thus the first in an ongoing decentralization process. The aims of this decetralization are that all university and higher education libraries shall have information officers who can have a close contact with the users and do the profiling work while IDC is responsible for

processing and education. The units in 1974-75 were

Ae	AB Atomenergi
LUB	Lunds universitetsbibliotek
NTH	Norges tekniske högskole
OTA	Tekniska högskolan i Helsingfors

In table 2 is given status on 1975-01-07 of the distribution of queries among the information units. IDC is responsible for 70 % of the queries.

In table 3 is indicated the number of profiles for each unit distributed on the databases. The percentage for IDC is in this case 75 %. Table 4 indicates new and terminated queries and profiles through IDC on a montly basis. If new and terminated queries and profiles are added respectively and compared with the figures for status on 1975-07-01 it can be found that the turnover measured in this way is 70 % for queries and 61 % for profiles through IDC.

One of the inferences that can be concluded from these figures is that most of the profiling work of the information officers is spent on generating new profiles, that there will be little time for modification of existing profiles. In tables 5, 6 and 7 are given the figures for the distribution of the new profiles on the various databases for IDC, Ae + LUB + NTH + OTA, and all respectively on a montly basis. Base profiles are profiles which are used for calling (i.e. they are called upon by other profiles) or copying. It can be seen that the multidisciplinary databases, ISI, COMPENDEX, GRA are the most heavily utilized, which is of course to be expected. It can also be seen that the marketing efforts of fall and spring have resulted in many profiles.

Table 8 gives an indication of the various user categories utilizing the SDI-service. The industrial users are the dominant group, 46 %, while academic users are the second biggest group, 29 %. Of the academic users 47 % are from the Stockholm area.

Table 9 gives a breakdown of the industrial users by sector and number of employees. The pattern is quite clear, the big enterprises dominate and the reasons for this are of course that they have the resources for utilizing this kind of information service since the information delivered is usually on a highly technical level. Size alone is not a determining factor but rather technical competence, technological level. The small enterprises using the SDI-service usually have technologically advanced products, e.g. instruments.

In diagrams 1 and 2 are given the cumulated new and terminated queries and running queries respectively since 1968 and 1971.

Information processing

The number of processed and disseminated references for each database, and its utilization percentage, is given in table 10 . The existing files their cumulated volume and total number of disseminated references is given in table 11. The number of searches (database volumes) processed per month is given in table 12 . In table are given statistics on the batch retrospective searches of ERIC.

Back-up services

An easy access to the original documents is very important and IDC has catered for this by making the ordering of copies of documents very simple. A copy of all lists distributed is kept at the IDC. All the user has to do is to indicate his query number, the date of the list and the number of the reference on that list. This can be done on special forms, evaluation forms or on any piece of paper or even by phone or telex. The staff of IDC will then provide all the bibliographic details necessary to the RIT Library. The amount of work involved in this can be measured by the number of copies ordered and by noting that a complete copy order slip has to be filled in, for utilization by the Library staff. The total number of copy orders processed during fy 1974 - 75 was 21 000, which is a sevenfold increase since 1968.

Clerical and administrative activities

The clerical and administrative activities performed in the execution of the project are not as amenable to measurement as the preceding. Only some of the functions will be mentioned here to indicate the extent of these fundamental activities.

Since IDC receives, and processes, on the average more than one magnetic tape each day, a separate, complex, tape handling routine is needed to keep track of tapes received as well as not received, tapes delivered to and received from the computing center, tapes reformatted, searched, results merged and listed. Statistics pertaining to these various activities are kept and analysed, e.g. royalty charges are based on various combinations of these statistics.

Various information on a new query and corresponding profiles is registered in different files, e.g. mailing and invoicing lists. The actual mailing of the output and the filing of the IDC copies is a tedious task. Invoicing, accounting, budgeting are important tasks which also demand attention. The production of the databases MechEn and Wood also falls under this heading. The number of references produced in each can be found in e.g table 10 as the number of references processed.

Information centers	Number of queries
The Swedish Atomic Energy Company (Ae)	128
RIT-IDC	1 304
University of Lund - LUBDOK (LUB)	140
Norwegian Institute of Technology (NTH)	79
Helsinki Institute of Technology (OTA)	81
Norddok - Project for Information in Education	83
Biomedical Documentation Center (BMDC)	4
Group profiles	86
	1 905

Table 2. Distribution of queries from information centres using the databases administrated by IDC. Status 1975-07-01

Data bases	IDC Ae	BMDC	Individual	Standard	LUB	NTH	OTA	Sum
Base profiles	27	7	1 245	22	66	79	81	1 527
Macro profiles	-	-	211	-	-	-	-	211
BIOSIS	-	139	11	-	46	2	-	198
CACEVEN	25	194	403	5	51	50	45	768
CACODD	4	189	179	-	68	17	13	475
Compendex	9	-	910	19	35	75	55	1 103
CP	8	4	981	21	112	78	66	1 270
Eric	1	-	204	1	11	3	-	220
FSTA	-	-	57	1	13	5	4	80
GRA	14	-	1 017	21	80	76	51	1 259
INIS	99	-	60	-	3	1	8	171
INSPEC	12	-	595	3	35	35	19	699
IPC	-	-	113	-	2	1	6	122
ISI	22	4	1 019	21	105	79	74	1 324
MA	18	-	320	7	7	26	15	393
MechEn	2	-	359	17	7	14	20	419
NSA	118	-	68	-	10	8	8	212
SSCI	-	-	190	-	21	4	1	216
TR	47	-	91	-	11	5	-	154
WOOD	-	-	58	-	3	1	2	64
Sum	406	537	8 091	138	686	559	468	10 885

Table 3. Number of profiles / information centre and data base.
Status 1975-07-01

Period	New queries	New profiles	Terminated queries	Terminated profiles
jul -74	21	109	73	155
aug -74	43	123	28	151
sep -74	21	89	53	184
oct -74	50	271	19	70
nov -74	47	245	24	
dec -74	40	194	13	76
jan -75	23	142	39	252
feb -75	78	477	41	249
mar -75	86	554	15	149
apr -75	70	350	34	240
may -75	21	141	23	157
jun -75	16	77	36	329
	516	2 772	398	2 201

Table 4. New and terminated queries and profiles per month, IDC

Database	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
Base prof.	20	18	18	49	46	40	20	91	97	68	23	13	503
Cacodd	3	3	3	7	3	6	6	17	25	16	2	-	91
Caceven	6	7	6	19	13	12	7	31	39	29	7	2	178
Compendex	17	17	13	39	42	27	16	53	54	36	19	12	345
CP							16	58	56	42	20	7	199
Eric	1	-	3	1	3	3	3	4	7	5	1	3	34
FSTA	1	-	1	2	-	2	2	5	7	2	-	-	22
GRA	20	12	13	44	40	28	17	63	75	56	20	10	398
INIS	-	1	-	1	1	-	-	4	9	1	1	1	17
INSPEC	3	7	9	26	31	11	13	31	41	9	15	8	204
ISI	15	15	14	46	39	29	28	62	77	54	20	7	406
MechEn	8	4	3	16	12	7	1	17	13	9	5	4	99
IPC	3	1	2	2	5	2	1	4	6	9	1	-	36
MA	9	6	3	6	6	20	2	14	11	5	4	4	90
NSA	-	2	-	1	1	-	2	5	11	1	-	-	23
SSCI	1	28	1	7	2	7	7	11	12	2	4	3	85
WOOD	2	-	-	1	-	-	-	1	-	1	-	3	8
TR	-	2	-	4	1	-	1	6	14	5	1	1	34
Total number of profiles	109	123	89	271	245	194	142	477	554	350	141	77	2 772
Total number of queries	21	43	21	50	47	40	23	78	86	70	21	16	516

Table 5. New profiles per month and database, IDC

Database	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
Base prof.	3	5	8	8	9	9	6	9	7	21	6	1	92
Caceven	4	9	7	8	2	4	5	4	3	31	11		88
Cacodd	4	4	1	7	2	2	7	6	1	27	10		71
Compendex	6	7	5	5	1	8	1	6	2	16	16		73
CP							8	10	4	42	26	1	91
ERIC					3	2	3	2	2				12
FSTA				2	1	2		1		9	3		18
GRA	6	10	5	15	6	5	5	10	4	22	14		102
INIS	1		5	2	7	4		1	1	1			22
INSPEC	3		2	3		1	1	5	2	12	12		41
IPC						1			1	3			5
ISI	8	10	9	15	3	8	8	11	6	36	25		139
MechEn	1	1	5	1		1		1	1	10	12		33
METADEX	2		4	4	2	1		2	1	6	2		24
NSA	3		5	6	7	5		2	1	4	2		35
SSCI	1				5	3	1	1	3	1	2		17
TR	1		4	1	4	3			1	11	3		28
Wood	1							1		2			4
	44	46	60	77	52	59	45	72	40	254	144	2	895

Table 6. New profiles per month and database. Ae + LUB + NTH + OTA.

Database	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
Base prof.	23	23	26	57	55	49	26	100	104	89	29	14	595
Caceven	10	16	13	27	15	16	12	35	42	60	18	2	266
Cacodd	7	7	4	14	5	8	13	23	26	43	12	-	162
Compendex	23	24	18	44	43	35	17	59	56	52	35	12	418
CP							24	68	60	84	46	8	290
ERIC	1	-	3	1	6	5	6	6	9	5	1	3	46
FSTA	1	-	1	4	1	4	2	6	7	11	3	-	40
GRA	26	22	18	59	46	33	22	73	79	78	34	10	500
INIS	1	1	5	3	8	4	-	5	10	2	-	-	39
INSPEC	6	7	11	29	31	12	14	36	43	21	27	8	245
IPC	3	1	2	2	5	3	1	4	7	12	1	-	41
ISI	23	25	23	61	42	37	36	73	83	90	45	7	545
MECHEN	9	5	8	17	12	8	1	18	14	19	17	4	132
METADEX	11	6	7	10	8	21	2	16	12	11	6	4	114
NSA	3	2	5	7	8	5	2	7	12	5	2	-	58
SSCI	2	28	1	7	7	10	8	12	15	3	6	3	102
TR	1	2	4	5	5	3	1	6	15	16	3	1	62
WOOD	3	-	-	1	-	-	-	2	-	3	-	3	12
	153	169	149	348	297	253	187	549	594	604	285	79	366
Queries	30	53	34	71	66	54	33	95	96	122	60	17	731

Table 7. New profiles per month and database - all.
(IDC + LUB + Ae + NTH + OTA)

Type of users	Number of queries	Percentage
Industry	606	46 %
Universities:		
RIT	144	
SU, Stockholm U.	28	
UU, Uppsala U.	20	
LU + LTH, Lund U.	45	
Umeå U.	9	
Linköping U.	28	
GU + CTH, Gothenburg U.	73	
Luleå Institute of Technology	7	
Teachers colleges in		
Malmö	13	
Stockholm	4	
School of Agriculture	3	
		29 %
Govermental institutions	54	4 %
Research organizations	114	9 %
Scandinavian and foreign	133	10 %
Others	23	2 %
	1 304	

Table 8. Distribution of queries through IDC on user categories. Status 1975-07-01.

Sector	Number of employees <500	>500	Totally
Chemical industries including food & paper	17	82	99
Engineering & metal industries including mining, iron & steel handling	33	159	192
Electrotechnical industries	15	201	216
Automotive industries		44	44
Instrumentation, optics & other industries	6	8	14
	71	494	565

Table 9. Industrial users through IDC. Distribution and size of enterprise. Status 1975-10-15.

Data base	Number of processed references 1974/75	Number of disseminated references 1974/75	Disseminated / Processed
SCIST	445 627	408 248	92 %
MechEn	32 968	33 823	103 %
CAC	363 491	386 061	106 %
INSPEC	118 391	221 486	187 %
Metadex	28 126	75 453	268 %
GRA	57 056	165 230	289 %
Compendex	86 478	220 521	255 %
NSA	68 964	130 407	189 %
ABIPC	12 661	14 933	118 %
WOOD	7 319	14 421	197 %
FSTA	18 400	14 859	80 %
ERIC	39 052	87 630	224 %
CP	148 077	222 191	150 %
TR	9 789	4 416	45 %
SSCI	96 262	84 951	88 %
INIS	81 787	92 941	114 %
	1 614 448	2 177 571	135 %

Table 10. Processed and disseminated references fy 1974 - 75.

DATABASE	PERIOD	TOTAL NUMBER OF REFERENCES	TOTAL NUMBER OF DISTRIBUTED REFERENCES
ISI	68 - 75	3 044 066	1 897 422
MECHEN	68 - 75	293 033	262 621
POST	69 - 71	63 000	111 800
INSPEC	69 - 75	758 256	1 030 186
MA (METADEX)	69 - 75	163 269	302 653
CICP(E)/ CP	70 - 71, 73 - 75	367 953	380 988
NYFLI	70 - 72	13 520	7 097
STAR	69	28 500	9 000
NSA	71 - 75	296 689	253 107
ABIPC	71 - 75	66 261	58 733
WOOD	71 - 75	33 919	41 461
COMPENDEX	71 - 75	388 062	691 221
ERIC	71 - 75	177 280	205 330
STU	71 - 72	3 834	5 610
CAC	72 - 75	1 442 920	863 961
FSTA	72 - 75	71 399	80 459
TR	73 - 75	25 889	9 716
GRA	73 - 75	164 177	325 830
SSCI	74 - 75	191 299	199 851
BSSH	73	7 700	500
INIS	74 - 75	108 987	107 841
		7 710 013	6 845 387

Table 11. Existing bibliographic files, their cumulated volume, and total number of references distributed since 1968.

July	1974	30
August	1974	35
September	1974	20
October	1974	41
November	1974	31
December	1974	17
January	1975	28
February	1975	32
March	1975	41
April	1975	43
May	1975	44
June	1975	62
		Σ 424

Table 12. Number or searches made per month

Diagram 1.

Cumulated new queries and terminated queries for the period 1968 - 1975

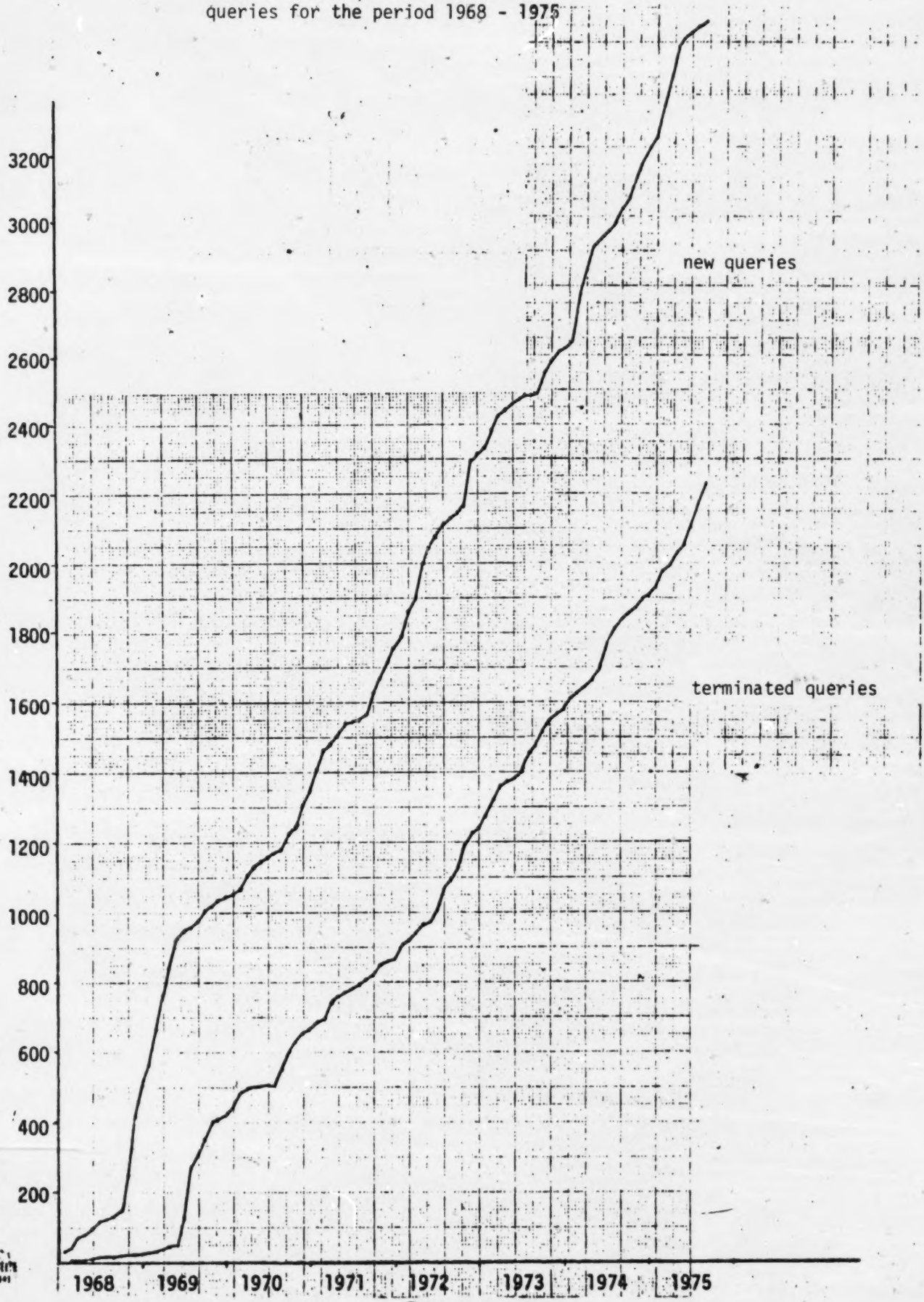
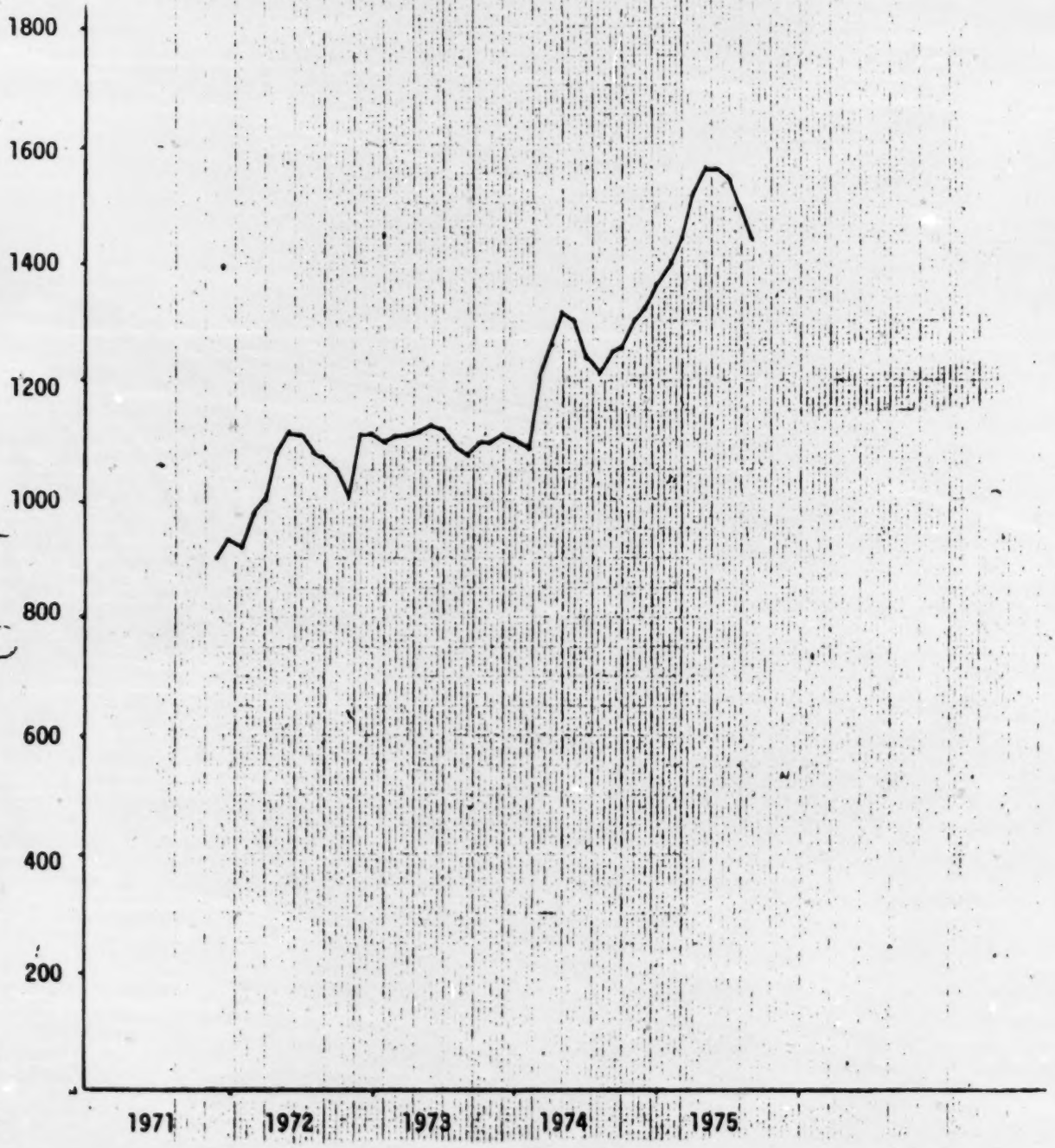


Diagram 2.

Number of running queries 1971 - 1975



Appendix 1

Activity code

A = Seminars, workshops, lectures, organized by the staff of the Royal Institute of Technology (RIT) Information and Documentation Centre

B = Presentations and demonstrations

C = Meetings, courses, seminars attended by the staff

D = Students undergoing practical training at the IDC

E = Cooperation with data base producers and external information centres

F = Fairs

G = Committee work

H = Co-operation with BMDC

Staff involved

ZG = Zofia Gluchowicz
RH = Roland Hjerppe
EA = Eva Agerberg
LC = Lilianna Kanafarski
ME = Malin Edström
TH = Tore Hedman
LK = Luise Kaiserfeld
ÅN = Åke Nord
LBP = Lars-Börje Pettersson
PS = Peter von Sabsay

Date	Place	Staff involved	Activity code	
July 1974				
8 - 9	Trondheim	LK	E	Education of staff of the Norwegian Institute of Technology, GUTS, EPOS
23 - 24	RIT	All	E	Hans Evers, European Space Research Organization. Informing about CACON on RECON
August 1974				
5 - 10	Stockholm	All	F	International Federation for Information Processing. Stockholm Meeting and Fair.
12 - 30	RIT	All	D	Arja Riitta Harala, Helsinki Institute of Technology, Library
14	RIT	ZG	B	Arthur FitzPatrick Research Council of Alberta Edmonton, Alberta CANADA
21	Stockholm	RH	G	SIS, the Swedish Standards Association
21 - 22	Tammerfors	ZG	C	Tammerfors University, Finland
27	Stockholm	RH	G	LIBRIS-project
28 - 30	RIT	All	D	Gunnel Hessler, LUBDOK
29	Stockholm	ME,RH,LBP, ZG	H	Swedish Council for Scientific Information and Documentation
30	RIT	ZG	B	B K Verma Zagreb Yugoslavia
September 1974				
6	Stockholm	ME	H	Education of 3 documentalists from BMDC on EPOS/VIRA
9, 12, 13	RIT	ZG	B	B Boytchev, G Korovski, D Penchev Central Institute for Scientific and Technical Information Sofia Bulgaria
10	Stockholm	MW,LC,ME	H	Discussions with BMDC over the databases Biosis, ISI, Chemical Abstracts

Date	Place	Staff involved	Activity code	
10	Stockholm	RH		NORDFORSK, Scannet-project
10 - 13	Poland	LK	C	The First National Conference on Selective Dissemination of Information in the National Information System
12	RIT	ME	H	Education of 3 documentalists from BMDC on EPOS/VIRA
13	RIT	ME	H	Education of Berith Aschberg from BMDC on EPOS/VIRA
16 - 17	RIT	ZG	B	Peter Sárdy Library Department Ministry of Culture Budapest Hungary
17	RIT	ZG	B	Prof DeLorme Universite´ de Technologui de Compienne France
17 - 27	RIT	ZG	D	Per Thernquist College of Librarianship, Borås
18 - 20	Frascati	RH	C	ESA User Meeting
24	RIT	ZG	B	Head Masters of Technical Institutes in the Nordic countries
24	RIT	TH	A	Department of Mineral Processing, RIT
25	Stockholm	ZG	H	Meeting with Göran Falkenberg, BMDC
25	RIT	TH	A	Department of Steam Engineering, RIT
27	Stockholm	RH	G	Committee work, LIBRIS-project
27	RIT	TH	A	Department of Mechanical Engineering, RIT
30	Stockholm	RH	G	NORDDOK

Date	Place	Staff involved	Activity code	
October 1974				
3	Stockholm	RH, ZG	H	BMDC
7	Stockholm	RH, ZG	H	SINFDOK
8	Stockholm	ME	G	Miljövårdens informationssystem, committee 30, MI-30
9	RIT	ZG	B	Kerstin Anér, Member of Swedish Parliament
14	Stockholm	ZG	A	Lecture held for the Joint Group for Information and Documentation within the Pharmaceutical Industries
15	Stockholm	RH	G	ISO TC 46
16	Stockholm	RH	G	ISO TC 46
17	RIT	ZG	E	Michael Sim, Institute for Scientific Information
17	Stockholm	ZG	H	BMDC
17	RIT	ZG	B	Koos Hogendonk Shell International Petroleum Co The Hague Holland
17 - 23	Stockholm	All	F	Stockholm Technical Fair
24	Stockholm	RH	H	SINFDOK
28	Stockholm	ME	H	Meeting with Berith Aschberg, BMDC
28 - 29	Stockholm	All	C	Swedish Society for Technical Documentation, autumn meeting
November 1974				
4	Stockholm	RH, ZG	H	Meeting with Göran Falkenberg, BMDC

Date	Place	Staff involved	Activity code	
11	RIT	ZG	B	Dr Wood, Ms Bauer British Lending Library Boston Spa England
11	Stockholm	RH	H	SINFDOK
12 - 13	RIT	ME, AN	A	Deparment of Electric Power Systems, RIT, 31 attendees
12 - 15	RIT	ZG	D	Eva Johannesson, Laila Österlund College of Librarianship, Borås
14	Stockholm	ME	G	MI-30
18	Stockholm	ME	H	Education of 3 documentalists from BMDC on EPOS/VIRA
21 - 22	Oslo	RH	C	NORDFORSK, Evaluation of Information Retrieval Systems and Functions
25 - 28	Stockholm	ZG, RH, ME	C	UNESCO Seminar, the Interactive Library
29	Borås	ZG	A	Lecture at the College of Librarianship, Borås
29	RIT	ZG	B	John Davies Librarian Scandinavia The British Council London England
December 1974				
3	RIT	All	D	College of Librarianship, Borås 10 attendees
3	RIT	ZG	B	Chon-Hwae Kim Chief Librarian Technical Library Agency for Defense Development Seoul Korea
3	RIT	TH, LK	A	Department of Plasma Physics, RIT

Date	Place	Staff involved	Activity code	
4	RIT	All	H	Visit from BMDC, about 30 guests
5	Stockholm	PS, ZG	C	The Swedish Association for Metal Transforming, conference
10	RIT	RH, TH	A	Uddeholm AB, 28 attendees
13	RIT	ZG	D	Georg Fagerström, Margareta Lundqvist, Coll of Librarianship
16 - 31	RIT	All		Implementation of KOMPOST
January 1975				
3	Stockholm	ME	H	Meeting with Berith Aschberg, BMDC
13	Caroline Institute Stockholm	All	H	The whole staff of RIT - IDC visited BMDC
13	RIT	TH	A	Department of Mechanical Engineering of Wood, RIT, 9 attendees
15	RIT	All	E	Visit by Arja Riitta Harala, OTA
16	Stockholm	LBP, RH	H	SINFDOK
21	Stockholm	TH	C	Attended a course in Cellulose technology
21	Stockholm	ZG	H	SINFDOK
23	Stockholm	TH	C	Attended a course in Cellulose technology
23	RIT	TH	A	Department of Machine Tools, RIT, 20 attendees
27	RIT	ZG	B	Gerald J Sard Collendean Farm Norwood Hill Horley England
28	Stockholm	TH	C	Attended a course in Cellulose technology

Date	Place	Staff involved	Activity code	
28	Amsterdam	ZG	C	EUSIDI Full Members' Meeting
30	Stockholm	TH	C	Attended a course in Cellulose technology
30	Stockholm	ME	G	MI-30
31	RIT	TH	A	Department of Aeronautics, RIT, 20 attendees
February 1975				
4 - 7	RIT	ZG	D	Marshall Ansell, Åke Hügard, C of L
5	RIT		B	Visit by the Department of Plasma Physics and Electron Physics
7	RIT	ME	G	MI-30, visit by committee members
7	RIT	TH	A	Deparment of Aeronautics, RIT, 17 attendees
13	Stockholm	RH	G	ISO/INFCO
13 - 14	RIT		E	David Martin, INSPEC
18	Stockholm	ZG	H	BMDC
19	RIT	ZG	B	Melvin J Voigt University Librarian University of California San Diego, La Jolla California USA
20	Stockholm	ZG	G	
20	RIT	TH	A	Department of Cellulose Technology, RIT, 14 attendees
24	RIT	All	A	SDI conference, see Appendix 4 About 100 attendees
25	Stockholm	RH	G	Committe work, LIBRIS-project
26	RIT	ZG	B	Cécile Thiéry Association Européenne Oceanique "Eurocean" Monaco

Date	Place	Staff involved	Activity code	
28	RIT	LK, LC, ME	B	A Skjeltorp, A Rinnan, O Krest Forsvarets Bygningstjenste Oslo Norway
4, 6, 11, 13, 18, 25, 27	Stockholm	TH	C	Attended course in Cellulose technology
March 1975				
3	RIT	TH	A	The Swedish Society for Technical Documentation, 20 attendees
3	Stockholm	EA	C	IBM course
4, 6	Stockholm	TH	C	Attended course in Cellulose technology
10	RIT	All	A	SDI conference, see Appendix 4 About 100 attendees
11 - 12	RIT	All	D	Astrid Svestad Norges Landbrukshögskoles bibliotek Norge
11 - 12	RIT	All	D	Sonja Hortling Kemira Oy Finland
13	RIT	ZG, AN	A	The Royal Caroline Institute, 20 attendees
13	RIT	TH	A	Jernkontoret-Metallverken
14		RH	G	SIS
17	RIT	All	A	SDI seminar, see Appendix 3 About 30 attendees
18	RIT	TH	A	The Swedish Defence Staff
20	Stockholm	ME	G	MI-30
27	RIT	ZG	B	Gilberto Diaz Santana Servicion Nacional ARMO Centro de Informacion y Documentacion Mexico

Date	Place	Staff involved	Activity code	
April 1975				
1	Stockholm	ZG	G	Miljöinformationsnämnden
3	Stockholm	ZG	A	The National Swedish Institute for Building Research
3	RIT	ME, LK, LC, KW	A	RIT Chemics, candidates, 30 attendees
4	RIT		B	Kemisk tidskrift
4		LBP	C	Beginning of study trip to the USA and Canada
7	RIT	All	A	The Swedish Academy of Engineering Sciences, about 6 attendees
14	Stockholm	ZG	H	SINFDOK
16	Stockholm	RH	H	SINFDOK
28	RIT	ZG	B	A Aydin Turelli Information Specialist Ankara Turkey
May 1975				
5	RIT	ZG	D	3 students from the College of Librarianship, Borås
7	Stockholm	RH	G	Miljödatanämnden
12 - 14	Frascati	AN, ZG	C	ESA Recon User Seminar
15	Stockholm	RH, PS	A	The Research Institute of the Swedish National Defence
15	RIT	ZG	B	3 students from the College of Librarianship, Borås
15	Stockholm	ME	G	MI-30
20		LBP	C	Back from USA and Canada
20	RIT	ZG	A	College of Librarianship, Borås, 15 attendees

Date	Place	Staff involved	Activity code	
21	RIT	ZG	B	S Cederblad The Swedish Export Council Stockholm Sweden D Yordanova System Engineer Sofia Bulgaria
22	RIT	TH	B	E Scücs, J Grad Hungarian Institute for Building Science Budapest Hungary
23	Stockholm	ZG	G	Miljödatanämnden
27	Stockholm	RH	G	ISO-INFCO
27 - 30	Luxembourg	ZG	C	EUSIDIC Full Members' Meeting, and Second European Congress on Information Systems and Networks
29 - 30	RIT	RH	B	David Barron National Library Australia
June 1975				
3 - 4	Borås	LC, TH	C	The Swedish Society for Technical Documentation, meeting
6	RIT	ZG	B	Mr Kypmets Sofia Bulgarien
16 - 19	Stockholm	EA	C	Attended an IBM course
18	RIT	LC, ME	B	Visit by personnel from AB Kabi

Appendix 2

The IDC staff publications

Hjerppe, R.: Reserapport från samnordisk överläggning för beredning av ärenden för ISO/TC 46, Documentations, i Köpenhamn 17 april 1974
Rapport TIRTA-LIB-4030 Sept 1974 5 p

Hjerppe, R.: Sammanfattning av "2nd RECON Users' Seminar" i Frascati, 18-20 sept 1974.
Rapport TRITA-LIB-4032 Sept 1974 20 p

Kaiserfeld, L.: Reserapport från the First National Conference on Selective Dissemination of Information in the National Information System, Polanica Zdroj, Polen 74-09-10--13.
Rapport TRITA-LIB-4033 Oct 1974 6 p

Gluchowicz, Z.: Förslag till undervisning i biblioteks- och litteraturkunskap.
Rapport TRITA-LIB-4500 Oct 1974 5 p

Gluchowicz, Z.: User interface in an information dissemination network node. Proc. UNESCO Seminar "The interactive library", Stockholm 1975 p 131 - 153
Rapport TRITA-LIB-4034 Nov 1974 22 p

Hjerppe, R.: Experiences of an interactive retrieval system ESRO/RECON. Proc. UNESCO Seminar "The interactive library", Stockholm 1975 p 113 - 129
Rapport TRITA-LIB-4035 Nov 1974 17 p

Hjerppe, R.: A Meta-model for Evaluating Information Retrieval Serviceability. Publ. i K. Samuelson et al.: Evaluation of Information Retrieval Systems and Functions, NORDFORSK, Sthlm 1974.
Rapport TRITA-LIB-6002 Nov 1974 31 p

Gluchowicz, Z.: Computerized Documentation Service - SDI - Selective Dissemination of Information. Annual Report 1973--1974.
Rapport TRITA-LIB-4040 Jan 1975 26 p

Pettersson, L-B.: Rapport från studieresa till National Science Library, Ottawa, Canada, och University of Georgia, Athens, Georgia, USA, samt studiebesök i anslutning till resvägen.
Rapport TRITA-LIB-1064 July 1975 20 p

Gluchowicz, Z.: Rapport från EUSIDIC Full Members' Meeting, Luxembourg, 27 maj 1975 och Second European Congress on Information Systems and Networks, Luxembourg, 27 - 30 maj 1975.
Rapport TRITA-LIB-4046 July 1975 8 p

Appendix 3

PROGRAM FÖR ABONNENTSEMINARIET 1975-03-17

1.	09.00	IDC-KTHB organisation, funktioner och administration
2.	09.25	EPOS+VIRA-systemet - kort presentation
3.	09.55	KOMPOST-formatet - introduktion och bakgrund
4.	10.05	KOMPOST tillämpat på COMPENDEX - praktiskt exempel
5.	10.20	EPOS - profilhanteringssystemet
6.	10.35	Viktning av söktermer och rangordning av sökresultat
7.	11.00	Fri text-sökning och kontrollerad vokabulär-sökning
8.	11.30	Anskaffning av originaldokument
9.	13.00	Gruppdiskussion. KOMPOST-EPOS - praktiska tillämpningar
10.	13.00	- " - System och datatekniska aspekter
11.	13.00	- " - Anskaffning av originaldokument
12.	15.30	Sammanfattning och avslutande diskussion
13.		RECON-demonstration

Datorbaserad informationssökning

Konferens vid Kungl. Tekniska Högskolan i Stockholm
i föreläsningssal E5 Lindstedtsvägen 5

1. Måndagen den 24 februari 1975
2. Måndagen den 10 mars 1975

Program

9.00 Synpunkter på informationsflödet i det vetenskapliga-tekniska systemet.
Överbibliotekarie Stephan Schwarz, KTH Biblioteket

9.30 Datorbaserad litteratursökning - metoder och system.
Civilingenjör Roland Hjerppe, KTH Biblioteket

10.00 Paus

10.15 Fortlöpande litteraturbevakning - SDI.
Retrospektiva sökningar on-line i dialog med dator.
En introduktion för användare.
1:e bibliotekarie Zofia Gluchowicz, KTH Biblioteket

11.30 Lunchpaus

13.00 Grupparbete:
Utformning av egna sökprofiler för senare provkörning.
Sökning on-line med RECON-terminalen.

16.30 Framtidsvyer för datorbaserad dokumentation.
Avdelningsdirektör Fredrik Backlund, Sinfdok

Observera att samma program gäller för båda dagarna.

- -

Anmälan till deltagande i konferensen måndagen den 24 februari 1975.....

måndagen den 10 mars 1975.....

Namn och intresseområde_____

Företag/institution_____

Adress_____Tel._____

Önskar delta i grupparbete ....Ja ....Nej

Har tidigare deltagit i konferens SDI-AKTUELLT ....Ja ....Nej

Sändes till KTH Biblioteket, Dokumentationsavdelningen,
100 44 STOCKHOLM 70 senast den 12 februari 1975.

Appendix 5

F I N A L P R O G R A M

The Interactive Library
Computerized Processes in Library
and Information Networks
November 25-28, 1974
in Stockholm

FINAL PROGRAM

Monday November 25 10.00 Royal Swedish Academy of Sciences Frescati Stockholm	*Opening of the Conference* *Brief presentation of on-line information retrieval systems accessible in Sweden. Preparation for practical exercises on computer terminals*	CARL-GUSTAF BERNHARD Professor Royal Swedish Academy of Sciences MALIN EDSTRÖM Information Officer Royal Institute of Technology Library GUNVOR-SVARTZ-MALMBERG M.D. Biomedical Documentation Center, Karolinska Institutet MARIANNE SANDELS Assistant Librarian, Royal Library
12.30	*Lunch at the Royal Swedish Academy of Sciences (only for those who have notified in advance)*	
2.00 Royal Swedish Academy of Sciences Frescati Stockholm	*International information networks for global and regional resource sharing* *A data network in the documentation and library area* *The experimental NORDFORSK network for connecting Scandinavian I&D-systems*	KJELL SAMUELSON Dr. Information Processing-ADP, Stockholm University ROLF ANDRÉN Head of Section at Swedish Agency for Administrative Development ERLING HAGEN Director of Scandinavian Council for Applied Research
6.00	*Dinner at the Royal Swedish Academy of Sciences* *(only for those who have notified in advance)*	

Tuesday November 26 between 8.00-10.00	*Demonstrations and practical exercises on computer terminals*	
see appendix 1		
Biomedical Documentation Center Karolinska Institutet	*Biomedical Documentation Center at Karolinska Institutet*	
	MEDLINE. Medical literature analysis and retrieval system on-line. Searching in dialogue with the program.	
	LIBRIS. The data system of the Swedish research libraries. Bibliographic services (acquisition, cataloguing, loan). Presented by the Swedish Agency for Administrative Development.	
10.00-12.00		
see appendix 1		
Royal Institute of Technology Library Valhallavägen 81 Stockholm	*Royal Institute of Technology Library*	
	RECON. Literature retrieval in direct access with computer at the European Space Agency, Frascati, Italy.	
	EPOS-VIRA. System for profiling and searching used for selective dissemination of information.	
	Lunch (not arranged by the Seminar)	
2.00		
Royal Swedish Academy of Sciences Frescati Stockholm	*MEDLINE at Karolinska Institutet*	GÖRAN FALKENBERG M.D., Head of Biomedical Documentation Center, Karolinska Institutet
	User interface in an information dissemination network node	ZOFIA GLUCHOWICZ Director Information & Documentation Centre, Royal Institute of Technology Library
	LIBRIS - a computerized library information system for Sweden	MARIANNE SANDELS Assistant Librarian, Royal Library
	The Swedish judicial information system	BÖRJE ALPSTEN Head of the Planning and Budget Secretariat. Ministry of Justice
6.00 see appendix 2	*On Tuesday and/or Wednesday on-line access demonstration at Stockholm University*	

Wednesday
November 27
between
8.00-10.00

see appendix 1

Demonstrations and practical exercises on computer terminals

Biomedical Documentation Center
Karolinska Institutet

Biomedical Documentation Center at Karolinska Institutet

MEDLINE. Medical literature analysis and retrieval system on-line. Searching in dialogue with the program.

LIBRIS. The data system of the Swedish research libraries. Bibliographic services (acquisition, cataloguing, loan). Presented by the Swedish Agency for Administrative Development.

10.00-12.00

see appendix 1

Royal Institute of Technology Library
Valhallavägen 81
Stockholm

Royal Institute of Technology Library

RECON. Literature retrieval in direct access with computer at the European Space Agency, Frascati, Italy.

EPOS-VIRA. System for profiling and searching used for selective dissemination of information.

Lunch (not arranged by the Seminar)

2.00

Royal Swedish Academy of Sciences

Frescati
Stockholm

ESRO's interactive system - an aid for development

N E C ISOTTA
Head of Space Documentation Service,
European Space Agency,
Frascati, Italy

Experiences from the use of an interactive retrieval system - ESRO - RECON

ROLAND HJERPPE
M.Sc.
Royal Institute of Technology Library

A compression method for structured files

GÖRAN THORÉN
B.Sc.
Royal Institute of Technology Library

Information retrieval and the mini-computer

MARTIN LEIMDÖRFER
Dr. Techn.
Industri-Matematik AB - Advanced Technology Group International

Thursday November 28 10.00 Royal Swedish Academy of Sciences Frescati Stockholm	*Interrelation of technical and policy aspects of scientific technical information networking in Europe. (An overview of an OECD Information Policy Group Study)*	J R U PAGE Consultant OECD
	Knowledge industry in the Third World	STEFAN DEDIJER Research Policy Program University of Lund
12.30	*Lunch at the Royal Swedish Academy of Sciences (only for those who have notified in advance)*	
2.00 Royal Swedish Academy of Sciences Frescati Stockholm	*Government policies for library network development with special emphasis on UNISIST and OECD recommendations*	BJÖRN TELL Director of Libraries University of Lund
	Benefits from network parasitology	ELIN TÖRNUDD Director of Libraries Helsinki University of Technology
	Presentation of the UNESCO programme within the field of national and international information systems	BJÖRN TELL Director of Libraries University of Lund